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ABSTRACT

This report presents summary analyses based on data obtained in a study of the physical facilities inventory and the regularly scheduled resident classes taught at the state-controlled colleges and universities in Virginia. The data reflect the actual utilization of instructional classrooms and teaching laboratories for Fall 1970, and are presented for both the resident day classes and the resident evening classes taught Monday through Saturday. The report is divided into 3 sections. The first section presents data relating to the utilization of instructional space by resident day classes only. The second section presents data relating to the utilization of space by resident evening classes only. The final section compares figures on resident day classes for Fall 1968 and Fall 1970. (HS)

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UTILIZATION INSTRUCTIONAL SP FALL 1970

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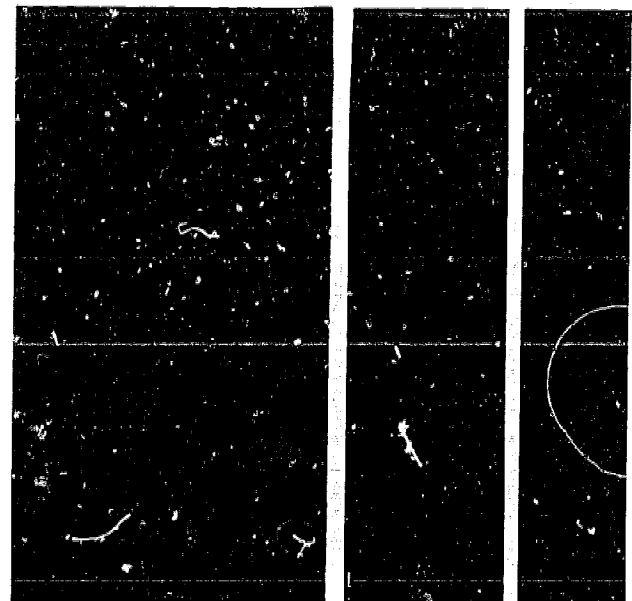
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U T I L I Z A T I O N O F I N S T R U C T I O N A L S P A C E

state-controlled
colleges and universities
1970-71



one of several research projects supported by a grant from the
division of college facilities of the u. s. office of education

Four-Year Colleges and Universities

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of William and Mary, Newport News
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Forge
Danville Community College, Danville
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Southside Virginia Community College, Alberta
Southwest Virginia Community College, Richlands
Thomas Nelson Community College, Hampton
Tidewater Community College, Portsmouth
Virginia Highlands Community College, Abingdon
Virginia Western Community College, Roanoke
Wytheville Community College, Wytheville
Eastern Shore College of University of Virginia,
Wallops Island^c
Patrick Henry College of University of Virginia,
Martinsville^c
Richard Bland College of The College of William
and Mary, Petersburg

^aData for Virginia Commonwealth University reflect the Academic Center only. Data for the Health Sciences Division were not included.

^bData for Lord Fairfax Community College and New River Community College were not included in this report since all resident class instruction was conducted in leased or rented facilities.

^cEastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System on July 1, 1971.

INTRODUCTION

During the academic year 1970-71, the State Council of Higher Education for Virginia conducted an extensive study of Higher Education Facilities in Virginia as part of a comprehensive planning study funded by the Division of Academic Facilities of the U. S. Office of Education. This study, relating to current facilities, was designed to provide information useful in planning future construction needs for higher education in Virginia. A result of this research, as presented in this report, provides insightful data and analyses as of Fall 1970 for all state-controlled institutions of higher education in Virginia. This report presents information with regard to the actual utilization of instructional classrooms and teaching laboratories.

A basic factor in the determination of long-range physical facilities needs is an analysis of the utilization of existing space. Such information may provide clues concerning the efficiency of the management of current facilities, and thereby may be of assistance to institutions in obtaining greater utilization in future years. Moreover, a study of this nature is essential to the review of space planning guides established for the use in determining future construction needs to meet anticipated increases in enrollment in higher education in Virginia.

This report is the third in a series which have presented comprehensive summary analyses in separate tables for instructional classroom and laboratory space. The first of the series entitled Utilization of Instructional Space at Virginia's Colleges was released in December, 1968 and reflected data as of Fall 1967. The second in the series, Utilization of Instructional Space, presented data as of Fall 1968 and was published in September, 1969. Selected data from the latter of those reports appear in Section III of this report for purposes of comparison. Funds to conduct this research were received from a Higher Education Facilities Comprehensive Planning Grant from the Division of Academic Facilities of the U. S. Office of Education.

This report presents summary analyses based on data obtained in a study of the physical facilities inventory and the regularly scheduled resident classes taught at the state-controlled colleges and universities in Virginia. Data on leased or rented facilities and resident class instruction conducted in these non-state owned facilities were excluded from the study. The Health Sciences Division of Virginia Commonwealth University, the Departments of Marine Science and Medical Instruction and related facilities at the University of Virginia, the School of Marine Science at The College of William and Mary, and the Virginia Associated Research Center have also been excluded from the study.

The data which appear in this report reflect the actual utilization of instructional classrooms and teaching laboratories for Fall 1970. Other space, such as instructional service areas, special class laboratories and faculty offices, although classified as instructional space, is not included in these analyses.

For the purposes of this report, data have been presented for both the resident day classes taught and the resident evening classes taught that utilize instructional classroom and/or teaching laboratories Monday through Saturday. The time period for day classes (7:00 a.m. through 4:59 p.m.) has been divided into ten 50-minute periods with 10-minute intervals between periods. The evening schedule (5:00 p.m. to 11:00 p.m.) has been divided into six 50-minute periods with 10-minute intervals between classes. This division provides not only a common daytime basis for comparison of data but also indicates the degree of evening usage of space in all of the institutions. Where necessary, appropriate adjustments have been made in the data to equate them to 50-minute periods.

The total amount of instructional space included in this report is 2,157,112 assignable square feet. Of this amount, 1,133,242 assignable square feet is classified as general classroom space. This figure represents 25.3 per cent of the total instructional space and 14.9 per cent of the total educational and general space in the state-controlled institutions in Virginia.

The 1,023,870 assignable square feet of teaching laboratory space considered in this report is 22.8 per cent of the total instructional space and 13.4 per cent of the total educational and general space in Virginia's state-controlled institutions.

It should be noted that the analyses that appear in this report are based on quantitative data only and do not reflect the quality of instructional space in either of the classifications.

This report is divided into three sections. The first section presents data relating to the utilization of instructional space by resident day classes only. The second section presents data relating to the utilization of resident evening classes only. The third section compares figures on resident day classes for Fall 1968 and Fall 1970.

DEFINITIONS OF TERMS

Period--A unit of time approximating one hour during which time a class would be assembled. For the purposes of this study, a normal class period consisted of 50 minutes of instruction with an allowance of 10 minutes for changing classes. A scheduled class meeting of two consecutive hours, or a total of 110 minutes, was considered as 2.2 class periods. Classes meeting in other time patterns were included in this study as proportional parts of the standard 50-minute period. For example, a class meeting scheduled for 75 minutes has been reflected in this study as 1.5 class periods.

Room-Period Use--The number of periods (usually interpreted as hours) that a room is occupied by a class. A room, for the purposes of this report, was considered in use whenever a regularly scheduled class was conducted in it regardless of the relationship of the seating capacity of the room to the student enrollment of the class.

Average Room-Period Use Per Week--An average determined by dividing the total number of room-periods scheduled per week by the total number of rooms.

Student Station--The area used to accommodate one student for one period of instruction. It is normally considered to be the area occupied by a desk, chair, laboratory table, or other suitable furnishing.

Student-Station-Periods Occupied (SSPO)--The number of student stations that are occupied in a given time period. For example, the occupancy of one student station for one room-period (50 minutes) would represent one student-station-period occupied. The following formula may be applied in obtaining the total SSPO for a given week:

$$\text{Total SSPO/Wk.} = \frac{\text{Total Student Minutes Occupied}}{50 \text{ Minutes}}$$

Student-Station-Periods Occupied Per Week Per FTE Student (SSPO/W/FTE)--A statistic that represents the number of hours (periods) per week that each FTE student utilizes a student station in a given facility (i.e. general classroom, teaching laboratory, etc.). The figure is obtained by dividing the total student-station-periods occupied per week by the number of FTE students.

Average Student-Station-Periods Per Station Per Week--The average number of hours (periods) that a student station is used per week as obtained by dividing the total SSPO by the total number of student stations.

Per Cent of Station Use Per Week When Room In Use--A measure of how nearly the total number of student stations in a room are filled only during those periods that regularly scheduled classes are held in the room.

DEFINITIONS (Continued)

Full-Time-Equivalent Student (FTE)--A statistic derived from the student-credit-hour productivity of an institution. The number of FTE students is obtained by dividing the total number of undergraduate, first professional, and graduate semester or quarter credit-hours produced by 15, 15, and 12 respectively.

Full-Time-Equivalent Day Students--That number of FTE students who attend classes during the hours from 7:00 a.m. through 4:59 p.m.

Daytime Class--Any scheduled class with beginning time between and including 7:00 a.m. and 4:59 p.m.

Evening Class--Any scheduled class with beginning time between and including 5:00 p.m. and 11:00 p.m.

Assignable Square Feet (ASF)--The square footage in a building assigned to or available for assignment to an occupant, including every type of space functionally usable by an occupant (excepting custodial area, circulation area, and mechanical area).

Educational and General Space--That space referred to as academic and administrative support space. Generally, it is that part of the facilities inventory related to the education, research, and extension and public service activities of the institution as well as the necessary supporting activities of general administration, student services, public relations and other general institutional activities, libraries, and physical plant maintenance and operations.

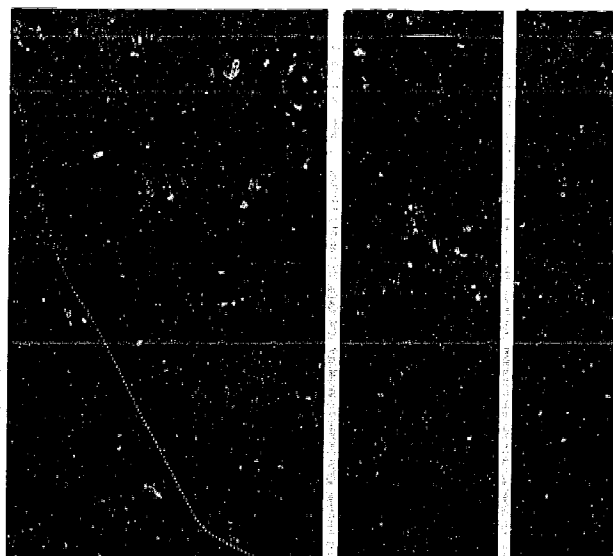
Class Enrollment--The number of students enrolled in a class. This figure includes all students who require accommodations in the facility where the class meets, whether they are enrolled for credit or as auditors. Further, the total group of students meeting in the same room and at the same time have been consolidated as a single class, irrespective of the courses in which they are enrolled.

General Classroom--A room used by regularly scheduled instructional classes which do not require special purpose equipment for student use. Included in this category are rooms generally referred to as lecture rooms, seminar rooms, lecture-demonstration rooms, and general purpose classrooms.

Teaching Laboratory--A room used by regularly scheduled instructional classes which require special-purpose equipment for student participation, experimentation, observation, or practice in a field of study.

The tables which appear in this section present a summary of room-period and student-station-period utilization of instructional space for general classrooms and teaching laboratories. The data presented in these tables relate to regularly scheduled resident day classes only and were derived from two sources of information. Initially, information concerning such items as room number, functional use, room type, square footage, and number of stations for each room at each institution was obtained in a room-by-room inventory for the fall semester or quarter 1970. Secondly, information relating to items such as course number, credit value, enrollment, days of the week, hours of the day, building and room number of each regularly scheduled resident day class taught for the fall semester or quarter 1970 was obtained from each institution as a part of the State Council's data collection system. By cross referencing these basic sources, information on student-station occupancy and room-period use by room was obtained.

**SUMMARY UTILIZATION TABLES OF
CLASSROOMS AND LABORATORIES
DAY CLASSES ONLY**



Presented in Table 1 is an institution-by-institution summary analysis of general classroom utilization of resident day classes taught for Fall 1970 at Virginia's state-controlled colleges and universities. It can be seen in column three that the daytime average room-period use per week for the four-year colleges and universities ranged from a low of 10.1 periods at Virginia State College to a high of 35.8 periods at George Mason College. In other words, Virginia State College used their classrooms, on the average, 10.1 hours per week whereas George Mason College used their classrooms 35.8 hours a week. The average room-period use per week between the hours of 7 a.m. to 5 p.m. for all four-year institutions is 21.2 periods.

The daytime average room-period use for the community colleges and two-year branch colleges indicated a range from a low of 5.8 periods at Eastern Shore College to a high of 33.2 periods at Central Virginia Community College. The overall daytime average for the community colleges and two-year branches is 22.0 room-periods used per week.

The per cent of station use per week when rooms are in use is shown in column seven. This calculation provides a measure of the extent to which rooms are filled to capacity when they are used. The hours when rooms are not in use are disregarded in this calculation. The average for the four-year institutions is 63.6 per cent and reflects a range from a low of 42.1 per cent at Virginia Military Institute to a high of 72.4 per cent at Longwood College. The all institutional average is 66.3 per cent of station use when rooms are in use.

The student-station-periods occupied per week per full-time-equivalent student (column eight) is a statistic that represents, on the average, the number of hours per week that a student who is carrying a full load (15 semester hours represents one FTE student), will occupy a seat in a classroom. This figure is obtained by dividing the total SSPO per week by the "Day" FTE students. The average for all institutions is 12.1 hours per "Day" FTE student. It should be noted that student-station-period use per FTE student varies from 15 (the number of semester credit hours for an undergraduate FTE student) for each institution. This can be explained by the fact that students spend a certain amount of their in-class time in rooms other than those classified as general classrooms.

Another of the more important analyses included in this table is a measure of the square feet available per student when rooms are occupied. Column nine indicates that the amount of classroom space per student-station-period occupied average for all institutions is 1.2 square feet.

**TABLE 1 – SUMMARY OF TEACHING CLASSROOM UTILIZATION
(DAY CLASSES ONLY)**

	1	2	3	4	5	6	7	8	9
INSTITUTION	NUMBER OF ROOMS	TOTAL ROOM-PERIODS USED PER WEEK	AVERAGE ROOM-PERIOD USE PER WEEK	NUMBER OF STUDENT STATIONS	TOTAL STUDENT-STATION-PERIODS OCCUPIED PER WEEK	AVERAGE STUDENT-STATION-PERIODS PER STATION PER WEEK	PER CENT OF STATION USE PER WEEK WHEN ROOM IN USE ^c	STUDENT-STATION-PERIODS OCCUPIED PER WEEK PER FTE STUDENT	SQUARE FEET PER STUDENT-STATION-PERIOD OCCUPIED
<u>4-YR. COL./UNIV.:</u>									
C. NEWPORT	31	612	19.7	1,374	13,702	10.0	50.6	15.8	1.7
CL. VALLEY	15	405	27.0	668	9,156	13.7	50.8	12.6	1.2
GEO. MASON	27	966	35.8	1,138	23,334	20.5	57.3	13.5	0.7
LONGWOOD	67	970	14.5	2,258	21,697	10.5	72.4	10.7	1.6
MADISON	71	1,720	24.2	2,918	45,429	15.6	64.3	11.8	1.1
MWC	68	1,303	19.2	2,466	28,468	11.5	60.1	12.8	1.5
NORFOLK STATE	98	1,975	20.2	3,910	54,874	14.0	69.5	12.8	1.2
OLD DOM.	122	2,607	21.4	5,045	74,421	14.8	68.9	12.4	1.1
RADFORD	89	2,352	26.4	3,086	56,401	18.3	69.2	14.6	1.3
U. VA.	165	3,544	21.5	9,021	122,478	13.6	63.1	12.3	1.1
VCU ^a	81	2,125	26.2	3,540	60,468	17.1	65.2	10.0	1.0
VMI	88	1,069	12.1	3,827	19,480	5.1	42.1	15.2	3.6
VPI & SU	167	4,324	25.9	8,051	150,046	18.6	72.0	12.6	0.8
VA. STATE	98	992	10.1	4,238	23,233	5.5	54.3	9.1	3.0
WM. AND MARY	83	1,904	22.9	4,427	49,729	11.2	49.1	11.9	1.3
4-YR. COL./UNIV.	1,270	26,868	21.2	55,967	754,916	13.5	63.6	12.2	1.2
<u>COMMUNITY COL.:</u>									
BLUE RIDGE CC	14	319	22.8	509	9,006	17.7	77.6	12.5	1.0
CENTRAL VA. CC	10	332	33.2	261	7,957	30.5	91.8	8.8	0.7
D. LANCASTER CC	8	203	25.4	244	4,538	18.6	73.2	11.9	1.1
DANVILLE CC	25	469	18.8	863	13,011	15.1	80.2	11.0	1.4
GERMANNA CC	7	225	32.1	263	3,118	11.9	36.9	11.0	2.1
JOHN TYLER CC	20	531	26.6	664	13,352	20.1	75.6	11.8	0.9
NORTHERN VA. CC	49	1,325	27.0	1,722	42,078	24.4	90.5	11.4	0.8
SOUTHSIDE VA. CC	11	165	15.0	440	2,657	6.0	40.3	18.1	2.5
SOUTHWEST VA. CC	11	338	30.7	320	7,918	24.7	80.6	10.5	0.8
T. NELSON CC	20	509	25.5	758	13,681	18.0	70.8	11.1	1.0
TIDEWATER CC	37	615	16.6	792	16,118	20.4	122.6	12.6	1.4
VA. HIGHLANDS CC	11	168	15.3	388	5,472	14.1	92.2	14.0	1.1
VA. WESTERN CC	34	852	25.1	1,049	20,974	20.0	79.7	11.8	1.2
WYTHEVILLE CC	8	205	25.6	368	5,434	14.8	57.7	11.6	1.0
COMMUNITY COL.	265	6,256	23.6	8,641	165,314	19.1	81.1	11.5	1.1
<u>2-YR. BRANCH COL.:</u>									
E. SHORE ^b	12	70	5.8	244	733	3.0	51.8	11.5	6.0
PAT. HENRY ^b	14	157	11.2	505	2,810	5.6	49.7	17.6	3.4
R. BLAND	22	403	18.3	763	9,420	12.3	67.5	15.9	1.8
2-YR. BRANCH COL.	48	630	13.1	1,512	12,963	8.6	65.4	16.1	2.4
ALL INSTITUTIONS	1,583	33,754	21.3	66,130	933,193	14.1	66.3	12.1	1.2

^aData for Virginia Commonwealth University reflect only the Academic Center.

^bEastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System July 1, 1971.

^cThe calculation dealing with "Per Cent of Station Use Per Week When Room In Use" will indicate station occupancy of more than 100% if the total number of student-station-periods occupied per week is greater than the total number of student stations available when the room is in use.

An analysis of the utilization of teaching laboratories during the daytime hours for Fall 1970 at the state-controlled institutions in Virginia is presented in Table 2. Examination of the data appearing in this analysis quickly reveals that teaching laboratories are not scheduled as heavily as classrooms. This is not unusual since such space has special equipment for use by the department to which it is assigned and thereby the laboratory may not be physically suited for other purposes.

The average room-period use shown in column three reveals that the all institutional daytime average is 10.6 hours of teaching laboratory usage per week. The four-year colleges and universities indicated a range from a low of 2.7 periods at Virginia Military Institute to a high of 21.4 periods at Virginia Commonwealth University. The two-year institutions, on the other hand, ranged from a low of 5.4 periods at Southside Virginia Community College to a high of 24.6 periods at Southwest Virginia Community College.

The student-station-periods occupied per week per daytime full-time-equivalent student for teaching laboratories is determined in the same manner as that calculated for general classrooms (Table 1). The SSPO/W/Day FTE student average for all institutions, as indicated in column eight, is 3.1 periods. When this figure is added to the all institutional average of 12.1 periods occupied per "Day" FTE student for general classrooms, the resulting 15.2 periods closely represent the number of semester hours for an undergraduate day full-time-equivalent student.

Presented in column nine is the square feet per student-station-period occupied. The average for all institutions is 4.4 square feet per SSPO which is understandably higher than the average for general classrooms.

**TABLE 2 — SUMMARY OF TEACHING LABORATORY UTILIZATION
(DAY CLASSES ONLY)**

	1	2	3	4	5	6	7	8	9
INSTITUTION	NUMBER OF ROOMS	TOTAL ROOM-PERIODS USED PER WEEK	AVERAGE ROOM-PERIOD USE PER WEEK	NUMBER OF STUDENT STATIONS	TOTAL STUDENT-STATION-PERIODS OCCUPIED PER WEEK	AVERAGE STUDENT-STATION-PERIODS PER STATION ¹ PER WEEK	PER CENT OF STATION USE PER WEEK WHEN ROOM IN USE ^c	STUDENT-STATION-PERIODS OCCUPIED PER WEEK PER FTE STUDENT	SQUARE FEET PER STUDENT-STATION-PERIOD OCCUPIED
4-YR. COL./UNIV.:									
C. NEWPORT	11	146	13.3	220	2,417	11.0	82.6	2.8	4.1
CL. VALLEY	9	104	11.6	218	1,522	7.0	60.2	2.1	5.8
GEO. MASON	10	159	15.9	280	3,431	12.3	77.1	2.0	3.0
LONGWOOD	42	331	7.9	922	7,009	7.6	96.2	3.2	4.2
MADISON	49	348	7.1	715	6,774	9.5	133.4	1.8	3.9
MWC	34	311	9.1	773	6,410	8.3	91.1	2.9	3.9
NORFOLK STATE	73	613	8.4	1,620	9,963	6.2	73.2	2.3	7.0
OLD DOM.	87	865	9.9	1,725	18,302	10.6	107.2	3.1	3.8
RADFORD	19	361	19.0	393	5,750	14.6	77.0	1.5	2.5
U. VA.	71	837	11.8	2,341	19,159	8.2	69.4	1.9	5.6
VCU ^d	74	1,581	21.4	1,840	28,665	15.6	72.8	4.7	2.4
VMI	51	140	2.7	1,510	3,193	2.1	78.3	2.5	20.1
VPI & SU	171	1,414	8.3	3,649	35,895	9.8	118.5	3.0	5.3
VA. STATE	106	519	4.9	2,018	9,723	4.8	98.3	3.8	7.5
WM. AND MARY	69	514	7.4	1,332	12,202	9.2	123.8	2.9	4.1
4-YR. COL./UNIV.	876	8,243	9.4	19,556	170,415	8.7	92.7	2.8	4.8
COMMUNITY COL.:									
BLUE RIDGE CC	6	128	21.3	152	2,160	14.2	66.7	3.0	2.2
CENTRAL VA. CC	15	352	23.5	342	6,171	18.0	76.8	6.8	2.5
D. LANCASTER CC	5	97	19.4	130	1,402	10.8	55.6	3.7	3.6
DANVILLE CC	24	387	16.1	615	8,264	13.4	83.5	7.0	4.2
GERMANNA CC	3	73	24.3	76	846	11.1	45.8	3.0	2.7
JOHN TYLER CC	10	152	15.2	219	4,208	19.2	126.4	3.7	2.4
NORTHERN VA. CC	29	594	20.5	836	15,255	18.2	89.0	4.1	2.1
SOUTHSIDE VA. CC	7	38	5.4	160	322	2.0	37.3	2.2	25.1
SOUTHWEST VA. CC	5	123	24.6	123	2,099	17.1	69.4	2.8	2.0
T. NELSON CC	10	131	13.1	270	3,128	11.6	88.4	2.5	2.5
TIDEWATER CC	21	228	10.9	480	5,055	10.5	96.6	3.9	3.8
VA. HIGHLANDS CC	14	98	7.0	302	1,944	6.4	92.0	5.0	8.7
VA. WESTERN CC	27	474	17.6	462	8,888	19.2	109.3	5.0	2.6
WYTHEVILLE CC	5	98	19.6	147	1,877	12.8	65.1	4.0	2.4
COMMUNITY COL.	181	2,973	16.4	4,314	61,619	14.3	87.1	4.3	3.2
2-YR. BRANCH COL.:									
E. SHORE ^b	3	20	6.7	58	181	3.1	46.6	2.8	7.3
PAT. HENRY ^b	5	38	7.6	120	640	5.3	70.2	4.0	6.7
R. BLAND	15	125	8.3	340	1,960	5.8	69.5	3.3	6.9
2-YR. BRANCH COL.	23	183	8.0	518	2,781	5.4	67.1	3.5	6.9
ALL INSTITUTIONS	1,080	11,399	10.6	24,388	234,815	9.6	90.8	3.1	4.4

^aData for Virginia Commonwealth University reflect only the Academic Center.

^bEastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System July 1, 1971.

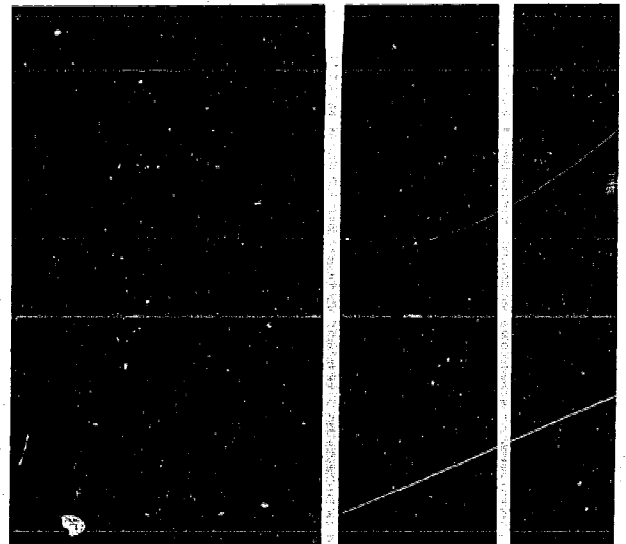
^cThe calculation dealing with "Per Cent of Station Use Per Week When Room In Use" will indicate station occupancy of more than 100% if the total number of student-station-periods occupied per week is greater than the total number of student stations available when the room is in use.

Presented in this section are tables which relate utilization data for evening classes only (5 p.m. to 11 p.m.) for each of the instructional facilities. As explained in Section I, the data were derived from information obtained in a cross referencing of the resident classes taught with a room-by-room inventory for each institution. Classes which begin prior to 5 p.m. are considered day classes and comprise Section I of this report and have been excluded from this section of the study. It should be noted that urban institutions have the opportunity to make greater use of their space in the evenings than those institutions which are not located in urban areas. This factor is reflected in the higher utilization figures in the evening for Old Dominion, VCU and some of the community colleges.

Table 3 presents summary data of classroom utilization for evening classes. The average room-period use ranges from a low of 0.2 per week to a high of 11.1 per week. The average for all institutions was 3.2 periods per week from 5 p.m. to 11 p.m.

Data relating to laboratory utilization of evening classes are presented in Table 4. The average room-period use for all institutions is 1.3 periods per week.

**SUMMARY UTILIZATION TABLES OF
CLASSROOMS AND LABORATORIES
EVENING CLASSES ONLY**



**TABLE 3 – SUMMARY OF GENERAL CLASSROOM UTILIZATION
(EVENING CLASSES ONLY)**

INSTITUTION	1 NUMBER OF ROOMS	2 TOTAL ROOM-PERIODS USED PER WEEK	3 AVERAGE ROOM-PERIOD USE PER WEEK	4 NUMBER OF STUDENT STATIONS	5 TOTAL STUDENT- STATION-PERIODS OCCUPIED PER WEEK	6 AVERAGE STUDENT- STATION-PERIODS PER STATION PER WEEK	7 PER CENT OF STATION USE PER WEEK WHEN ROOM IN USE ^c	8 STUDENT-STATION- PERIODS OCCU- PIED PER WEEK PER FTE STUDENT
4-YR. COL./UNIV.:								
C. NEWPORT	31	222	7.2	1,374	4,260	3.1	43.1	16.7
CL. VALLEY	15	25	1.7	668	324	0.5	28.5	16.2
GEO. MASON	27	36	1.3	1,138	643	0.6	43.5	11.5
LONGWOOD	67	37	0.6	2,258	746	0.3	55.1	11.7
MADISON	71	111	1.6	2,918	1,706	0.6	36.5	12.3
MARY WASHINGTON	68	13	0.2	2,466	312	0.1	63.3	22.3
NORFOLK ST.	98	247	2.5	3,910	5,892	1.5	60.3	17.7
OLD DOMINION	122	697	5.7	5,045	16,997	3.4	59.1	13.1
RADFORD	89	135	1.5	3,086	2,179	0.7	47.1	12.3
U. VA.	165	295	1.8	9,021	5,295	0.6	32.6	11.3
VCU ^a	81	859	10.6	3,540	21,089	6.0	56.2	13.6
VMI	88	--	--	3,827	--	--	--	--
VPI & SU	167	275	1.6	8,051	9,585	1.2	74.4	14.7
VA. STATE	98	126	1.3	4,238	2,581	0.6	46.8	14.0
WM. AND MARY	83	186	2.2	4,427	2,685	0.6	27.6	12.8
4-YR. COL./UNIV.	1,270	3,264	2.6	55,967	74,294	1.3	51.1	13.7
COMMUNITY COL.:								
BLUE RIDGE CC	14	132	9.4	509	3,272	6.4	68.4	16.4
CENTRAL VA. CC	10	91	9.1	261	2,393	9.2	100.8	9.5
D. LANCASTER CC	8	36	4.5	244	598	2.5	54.5	13.3
DANVILLE CC	25	73	2.9	863	1,982	2.3	79.2	12.2
GERMANNA CC	7	45	6.4	263	528	2.0	31.4	10.6
JOHN TYLER CC	20	96	4.8	664	2,522	3.8	79.1	11.1
NORTHERN VA. CC	49	480	9.8	1,722	13,638	7.9	80.8	12.7
SOUTHSIDE VA. CC	11	28	2.5	440	490	1.1	44.5	11.7
SOUTHWEST VA. CC	11	87	7.9	320	1,339	4.2	53.0	14.6
T. NELSON CC	20	222	11.1	758	5,361	7.1	63.7	18.7
TIDEWATER CC	37	68	1.8	792	1,492	1.9	104.7	7.9
VA. HIGHLANDS CC	11	44	4.0	388	1,159	3.0	74.7	10.7
VA. WESTERN CC	34	202	5.9	1,049	5,652	5.4	91.3	15.5
WYTHEVILLE CC	8	39	4.9	368	369	1.0	20.5	10.9
COMMUNITY COL.	265	1,643	6.2	8,641	40,795	4.7	76.1	13.0
2-YR. BRANCH COL.:								
E. SHORE ^b	12	15	1.3	244	198	0.8	62.4	14.1
PAT. HENRY ^b	14	31	2.2	505	960	1.9	86.4	15.2
R. BLAND	22	48	2.2	763	729	1.0	43.4	13.0
2-YR. BRANCH COL.	48	94	2.0	1,512	1,887	1.2	62.4	14.2
ALL INSTITUTIONS	1,583	5,001	3.2	66,120	116,976	1.8	55.3	13.5

^a Data for Virginia Commonwealth University reflect only the Academic Center.

^b Eastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System July 1, 1971.

^c The calculation dealing with "Per Cent of Station Use Per Week When Room In Use" will indicate station occupancy of more than 100% if the total number of student-station-periods occupied per week is greater than the total number of student stations available when the room is in use.

**TABLE 4 – SUMMARY OF TEACHING LABORATORY UTILIZATION
(EVENING CLASSES ONLY)**

INSTITUTION	1 NUMBER OF ROOMS	2 TOTAL ROOM-PERIODS USED PER WEEK	3 AVERAGE ROOM-PERIOD USE PER WEEK	4 NUMBER OF STUDENT STATIONS	5 TOTAL STUDENT- STATION-PERIODS OCCUPIED PER WEEK	6 AVERAGE STUDENT- STATION-PERIODS PER STATION PER WEEK	7 PER CENT OF STATION USE PER WEEK WHEN ROOM IN USE ^c	8 STUDENT-STATION- PERIODS OCCU- PIED PER WEEK PER FTE STUDENT
4-YR. COL./UNIV.:								
C. NEWPORT	11	22	2.0	220	324	1.5	73.6	1.3
CL. VALLEY	9	--	--	218	--	--	--	--
GEO. MASON	10	--	--	280	--	--	--	--
LONGWOOD	42	11	0.3	922	233	0.3	84.2	3.6
MADISON	49	9	0.2	715	108	0.2	75.5	0.8
MWC	34	--	--	773	--	--	--	--
NORFOLK STATE	73	66	0.9	1,620	780	0.5	53.5	2.3
OLD DOM.	87	134	1.5	1,725	3,616	2.1	139.7	2.8
RADFORD	19	35	1.8	393	818	2.1	115.6	4.6
U. VA.	71	40	0.6	2,341	756	0.3	53.8	1.6
VCU ^p	74	297	4.0	1,840	5,372	2.9	73.0	3.5
VMI	51	--	--	1,510	--	--	--	--
VPI & SU	171	23	0.1	3,649	432	0.1	118.4	0.7
VA. STATE	106	39	0.4	2,018	619	0.3	76.7	3.4
WM. AND MARY	69	10	0.1	1,332	217	0.2	162.9	1.0
4-YR. COL./UNIV.	876	686	0.8	19,556	13,275	0.7	84.9	2.4
COMMUNITY COL.:								
BLUE RIDGE CC	6	14	2.3	152	163	1.1	46.6	0.8
CENTRAL VA. CC	15	96	6.4	342	1,879	5.5	85.8	7.5
D. LANCASTER CC	5	16	3.2	130	261	2.0	62.7	5.8
DANVILLE CC	24	44	1.8	615	982	1.6	88.7	6.1
GERMANNA CC	3	20	6.7	76	306	4.0	60.1	6.1
JOHN TYLER CC	10	38	3.8	219	979	4.5	117.6	4.3
NORTHERN VA. CC	29	214	7.4	836	5,360	6.4	86.6	5.0
SOUTHSIDE VA. CC	7	14	2.0	160	201	1.3	62.8	4.8
SOUTHWEST VA. CC	5	16	3.2	123	126	1.0	32.0	1.4
T. NELSON CC	10	30	3.0	270	616	2.3	76.0	2.1
TIDEWATER CC	21	44	2.1	480	713	1.5	70.7	3.8
VA. HIGHLANDS CC	14	53	3.8	302	1,076	3.6	93.8	10.0
VA. WESTERN CC	27	63	2.3	462	1,206	2.6	113.5	3.3
WYTHEVILLE CC	5	9	1.8	147	69	0.5	26.1	2.0
COMMUNITY COL.	181	671	3.7	4,314	13,937	3.2	87.3	4.5
2-YR. BRANCH COL.:								
E. SHORE ^b	3	4	1.3	58	12	0.2	15.9	0.9
PAT. HENRY ^b	5	--	--	120	--	--	--	--
R. BLAND	15	--	--	340	--	--	--	--
2-YR. BRANCH COL.	23	4	0.2	518	12	0.0	11.6	0.1
ALL INSTITUTIONS	1,080	1,361	1.3	24,388	27,224	1.1	85.9	3.1

^aData for Virginia Commonwealth University reflect only the Academic Center.

^bEastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System July 1, 1971.

^cThe calculation dealing with "Per Cent of Station Use Per Week When Room In Use" will indicate station occupancy of more than 100% if the total number of student-station-periods occupied per week is greater than the total number of student stations available when the room is in use.

This section presents separate tables of comparative summary utilization data for classrooms and laboratories for Fall 1968 and Fall 1970. These data reflect the utilization of space by day classes only. All evening class data have been excluded from this section.

**COMPARATIVE SUMMARY UTILIZATION
DATA FOR CLASSROOMS AND LABORATORIES
FALL 1968 AND FALL 1970
DAY CLASSES ONLY**

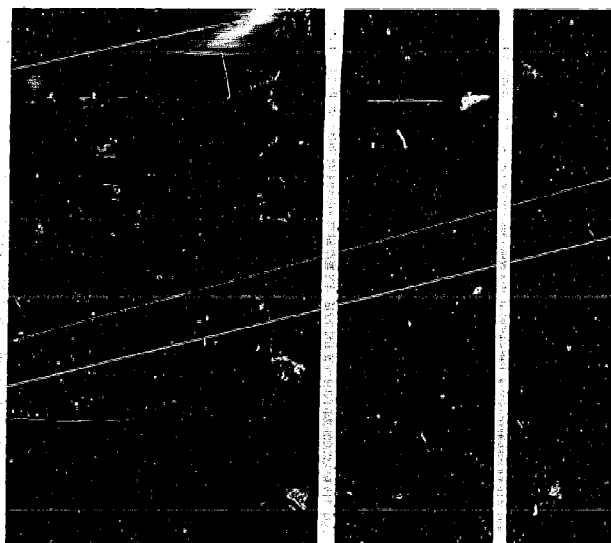


TABLE 5 — COMPARATIVE SUMMARY UTILIZATION DATA FOR GENERAL CLASSROOMS
FALL 1968 AND FALL 1970
(DAY CLASSES ONLY)

INSTITUTION	1		2		3		4		5		6		7		8		9	
	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970
4-YR. COL./UNIV.:																		
C. NEWPORT ^a	20	31	338	612	16.9	19.7	1,087	1,374	7,991	13,702	7.4	10.0	43.8	50.6	17.2	15.8	2.2	1.7
CL. VALLEY ^a	15	15	560	405	37.3	27.0	668	668	8,586	9,156	12.9	13.7	34.6	50.8	13.8	12.6	1.3	1.2
CEO. MASON	24	27	815	966	34.0	35.8	990	1,138	19,309	23,334	19.5	20.5	57.4	57.3	14.2	13.5	0.7	0.7
LONGWOOD	65	67	1,088	970	16.7	14.5	2,072	2,258	24,583	23,697	11.9	10.5	71.3	72.4	13.5	10.7	1.6	1.6
MADISON	64	71	1,409	1,720	22.0	24.2	2,449	2,918	35,812	45,429	14.6	15.6	66.4	64.3	10.8	11.8	1.3	1.1
MWC	65	68	1,885	1,303	29.0	19.2	2,442	2,466	30,407	28,468	12.5	11.5	43.1	60.1	14.1	12.8	1.4	1.5
NORFOLK STATE	87	98	2,274	1,975	26.1	20.2	3,499	3,910	47,431	54,874	13.6	14.0	52.1	69.5	14.6	12.8	1.2	1.2
OLD DOM.	99	122	2,495	2,607	25.2	21.4	4,063	5,045	67,429	74,421	16.6	14.8	65.9	68.9	12.6	12.4	1.0	1.1
RADFORD	77	89	1,611	2,352	20.9	26.4	2,621	3,086	39,940	56,401	15.2	18.3	72.7	69.2	11.9	14.6	1.3	1.3
U. VA.	171	165	3,581	3,544	20.9	21.5	8,625	9,021	96,899	122,478	11.2	13.6	53.6	63.1	11.4	12.3	1.4	1.1
VCU ^b	89	81	2,069	2,125	23.2	26.2	3,579	3,540	55,096	60,468	15.4	17.1	66.4	65.2	10.6	10.0	1.0	1.0
VMI	80	88	1,020	1,069	12.8	12.1	3,597	3,827	19,325	19,480	5.4	5.1	42.2	42.1	13.8	15.2	3.3	3.6
VPI & SU	155	167	4,108	4,324	26.5	25.9	6,861	8,051	135,306	150,046	19.7	18.6	74.3	72.0	12.5	12.6	0.8	0.8
VA. STATE	76	98	1,227	992	16.1	10.1	3,308	4,238	25,867	23,233	7.8	5.5	48.4	54.3	11.1	9.1	2.1	3.0
WM. AND MARY	96	83	1,870	1,904	19.5	22.9	4,776	4,427	43,028	49,729	9.0	11.2	46.2	49.1	10.8	11.9	1.8	1.3
4-YR. COL./UNIV.	1,183	1,270	26,330	26,868	22.3	21.2	50,637	55,967	657,009	754,916	13.0	13.5	58.2	63.6	12.0	12.2	1.3	1.2
COMMUNITY COL.:																		
BLUE RIDGE CC	14	14	360	319	25.7	22.8	509	509	10,547	9,006	20.7	17.7	80.5	77.6	16.4	12.5	0.9	1.0
CENTRAL VA. CC	12	10	290	332	24.2	33.2	374	261	5,993	7,957	16.0	30.5	66.1	91.8	10.1	8.8	1.1	0.7
D. LANCASTER CC	5	8	168	203	33.6	25.4	199	244	2,764	4,538	13.9	18.6	41.4	73.2	10.8	11.9	1.3	1.1
DANVILLE CC	30	25	432	469	14.4	18.8	1,033	863	10,661	13,011	10.3	15.1	71.6	80.2	12.0	11.0	2.1	1.4
GERMANNA CC ^c	--	7	--	225	--	32.1	--	263	--	3,118	--	11.9	--	36.9	--	11.0	--	2.1
JOHN TYLER CC	22	20	659	531	30.0	26.6	719	664	15,484	13,352	21.5	20.1	71.7	75.6	14.7	11.8	0.9	0.9
NORTHERN VA. CC	18	49	616	1,325	34.2	27.0	778	1,722	16,209	42,078	20.8	24.4	60.8	90.5	12.7	11.4	0.8	0.8
SOUTHSIDE VA. CC ^c	--	11	--	165	--	15.0	--	440	--	2,657	--	6.0	--	40.3	--	18.1	--	2.5
SOUTHWEST VA. CC	12	11	412	338	34.3	30.7	347	320	7,654	7,918	22.1	24.7	64.4	80.6	13.4	10.5	0.9	0.8
T. NELSON CC	15	20	417	509	27.8	25.5	479	738	9,124	13,681	19.0	10.0	68.3	70.8	10.7	11.1	1.1	1.0
TIDEWATER CC	26	37	410	615	15.8	16.6	598	792	4,992	16,118	8.3	20.4	52.8	122.6	10.9	12.6	3.3	1.4
VA. HIGHLANDS CC ^c	--	11	--	168	--	15.3	--	388	--	5,472	--	14.1	--	92.2	--	14.0	--	1.1
VA. WESTERN CC	16	34	649	852	40.6	25.1	485	1,049	14,287	20,974	29.5	20.0	72.7	79.7	13.3	11.8	0.6	1.2
WYTHEVILLE CC	8	8	208	205	26.0	25.6	402	368	5,589	5,434	13.9	14.8	53.5	57.7	14.9	11.6	1.0	1.0
COMMUNITY COL.	178	265	4,621	6,256	26.0	23.6	5,923	8,641	103,304	165,314	17.4	19.1	67.0	81.1	12.9	11.5	1.1	1.1
2-YR. BRANCH COL.:																		
E. SHORE ^d	14	12	87	70	6.2	5.8	244	244	1,217	733	5.0	3.0	80.6	51.8	16.9	11.5	3.1	6.0
PAT. HENRY ^d	5	14	146	157	29.2	11.2	177	505	1,896	2,810	10.7	5.6	36.6	49.7	15.9	17.6	1.7	3.4
R. BLAND	22	22	595	403	27.0	18.3	896	763	6,827	9,420	7.6	12.3	28.1	67.5	16.1	15.9	2.5	1.8
2-YR. BRANCH COL.	41	48	828	630	20.2	13.1	1,317	1,512	9,940	12,963	7.5	8.6	37.1	65.4	15.4	16.1	2.4	2.4
ALL INSTITUTIONS	1,402	1,583	31,799	33,754	22.7	21.3	57,877	66,120	770,253	933,193	13.3	14.1	58.6	66.3	12.3	12.1	1.3	1.2

^aChristopher Newport College and Clinch Valley College, reflected in the 1968 study as two-year branch institutions, have since been elevated to four-year status. The 1968 data have been adjusted accordingly in the four-year institutional totals and two-year institutional totals for the purposes of this report.

^bData for Virginia Commonwealth University reflect only the Academic Center for both 1968 and 1970.

^cGermanna Community College, Southside Community College and Virginia Highlands Community College were not in operation in 1968.

^dEastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System July 1, 1971.

TABLE 6 — COMPARATIVE SUMMARY UTILIZATION DATA FOR TEACHING LABORATORIES
FALL 1968 AND FALL 1970
(EVENING CLASSES ONLY)

INSTITUTION	1		2		3		4		5		6		7		8		9	
	NUMBER OF ROOMS		TOTAL ROOM-PERIODS USED PER WEEK		AVERAGE ROOM-PERIOD USE PER WEEK		NUMBER OF STUDENT STATIONS		TOTAL STUDENT-STATION-PERIODS OCCUPIED PER WEEK		AVERAGE STUDENT-STATION-PERIODS PER STATION PER WEEK		PER CENT OF STATION USE PER WEEK WHEN ROOM IN USE		STUDENT-STATION-PERIODS OCCUPIED PER WEEK PER FTE STUDENT		SQUARE FEET PER STUDENT-STATION-PERIOD OCCUPIED	
	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970	1968	1970
4-YR. COL./UNIV.:																		
C. NEWPORT ^a	8	11	88	146	11.0	13.3	168	220	1,540	2,417	9.2	11.0	83.6	82.6	3.3	2.8	5.5	4.1
CL. VALLEY ^a	9	9	108	104	12.0	11.6	218	218	1,903	1,522	8.7	7.0	72.5	60.2	3.1	2.1	4.7	5.8
GEO. MASON	10	10	111	159	11.1	15.9	277	280	2,509	3,431	9.1	12.3	81.9	77.1	1.8	2.0	4.1	3.0
LONGWOOD	38	42	173	331	4.6	7.9	916	922	3,326	7,009	3.6	7.6	78.2	96.2	1.8	3.2	6.2	4.2
MADISON	51	49	408	348	8.0	7.1	732	715	8,304	6,774	11.3	9.5	141.2	133.4	2.5	1.8	3.4	3.9
MWC	34	34	219	311	6.4	9.1	728	773	3,601	6,410	4.9	8.3	76.5	91.1	1.7	2.9	7.0	3.9
NORFOLK STATE	34	73	569	613	16.7	8.4	918	1,620	17,430	9,963	19.0	6.2	113.7	73.2	5.4	2.3	2.4	7.0
OLD DOM.	71	87	800	865	11.3	9.9	1,372	1,725	15,712	18,302	11.5	10.6	101.7	107.2	2.9	3.1	3.6	3.8
RADFORD	19	19	240	361	12.6	19.0	393	393	4,893	5,750	12.5	14.6	99.2	77.0	1.5	1.5	3.0	2.5
U. VA.	142	71	922	837	6.5	11.8	2,693	2,341	25,641	19,159	9.5	8.2	146.1	69.4	3.0	1.9	4.5	5.6
VCU ^b	100	74	1,338	1,581	13.4	21.4	1,943	1,840	29,551	28,665	15.2	15.6	113.4	72.8	5.8	4.7	2.5	2.4
VMI	59	51	194	140	3.3	2.7	1,704	1,510	4,438	3,193	2.6	2.1	78.7	78.3	3.2	2.5	16.3	20.1
VPI & SU	158	171	1,163	1,414	7.4	8.3	3,146	3,649	29,904	35,895	9.5	9.8	128.3	118.5	2.8	3.0	5.8	5.3
VA. STATE	100	106	838	519	8.4	4.9	1,888	2,018	11,788	9,723	6.2	4.8	73.8	98.3	5.1	3.8	5.5	7.5
WM. AND MARY	117	69	391	514	3.3	7.4	1,336	1,332	12,847	12,202	9.6	9.2	290.9	123.8	3.2	2.9	4.5	4.1
4-YR. COL./UNIV.	950	876	7,562	8,243	8.0	9.4	18,432	19,556	173,387	170,415	9.4	8.7	117.5	92.7	3.2	2.8	4.4	4.3
COMMUNITY COL.:																		
BLUE RIDGE CC	6	6	115	128	19.2	21.3	152	152	2,221	2,160	14.6	14.2	76.0	66.7	3.4	3.0	2.1	2.2
CENTRAL VA. CC	16	15	197	352	12.3	23.5	360	342	3,516	6,171	9.8	18.0	79.6	76.8	5.9	6.8	4.5	2.5
D. LANCASTER CC	5	5	119	97	23.8	19.4	129	130	1,773	1,402	13.7	10.8	57.5	55.6	6.9	3.7	3.0	3.6
DANVILLE CC	24	24	392	387	16.3	16.1	615	615	8,407	8,264	13.7	13.4	84.0	83.5	9.0	7.0	4.1	4.2
GERMANNA CC ^c	--	3	--	73	--	24.3	--	76	--	846	--	11.1	--	45.8	--	3.0	--	2.7
JOHN TYLER CC	9	10	177	152	19.7	15.2	197	219	3,033	4,208	15.4	19.2	78.1	126.4	2.9	3.7	3.3	2.4
NORTHERN VA. CC	9	29	278	594	30.9	20.5	244	836	5,905	15,255	24.2	18.2	78.3	89.0	4.6	4.1	1.7	2.1
SOUTHSIDE VA. CC ^c	--	7	--	38	--	5.4	--	160	--	322	--	2.0	--	37.3	--	2.2	--	25.1
SOUTHWEST VA. CC	4	5	88	123	22.0	24.6	96	123	1,846	2,099	19.2	17.1	67.2	69.4	3.2	2.8	2.0	2.0
T. NELSON CC	10	10	154	131	15.4	13.1	280	270	3,215	3,128	11.5	11.6	74.6	88.4	3.8	2.5	2.6	2.5
TIDEWATER CC	13	21	109	228	8.4	10.9	303	480	1,695	5,055	5.6	10.5	66.6	96.6	3.7	3.9	4.7	3.8
VA. HIGHLANDS CC ^c	--	14	--	98	--	7.0	--	302	--	1,544	--	6.4	--	92.0	--	5.0	--	8.7
VA. WESTERN CC	18	27	283	474	15.7	17.6	279	462	5,510	8,888	19.7	19.2	125.4	109.3	5.1	5.0	2.3	2.6
WYTHEVILLE CC	5	5	111	98	22.2	19.6	147	147	2,509	1,877	17.1	12.8	76.5	65.1	4.3	4.0	1.8	2.4
COMMUNITY COL.	119	181	2,023	2,973	17.0	16.4	2,802	4,314	39,630	61,619	14.1	14.3	82.9	87.1	4.8	4.3	3.0	3.2
2-YR. BRANCH COL.:																		
E. SHORE ^d	3	3	6	20	2.0	6.7	58	58	122	181	2.1	3.1	105.0	46.6	1.7	2.8	10.9	7.3
PAT. HENRY ^d	1	5	19	38	19.0	7.6	24	120	326	640	13.6	5.3	71.5	70.2	2.7	4.0	2.1	6.7
R. BLAND	14	15	193	125	13.8	8.3	325	340	1,771	1,960	5.4	5.8	39.1	69.5	4.2	3.3	7.2	6.9
2-YR. BRANCH COL.	18	23	218	183	12.1	8.0	407	518	2,219	2,781	5.5	5.4	45.4	67.1	3.4	3.5	6.6	6.9
ALL INSTITUTIONS	1,087	1,080	9,803	11,399	9.6	10.6	21,641	24,388	215,236	234,815	9.9	9.6	110.0	90.8	3.4	3.1	4.2	4.4

^a Christopher Newport College and Clinch Valley College, reflected in the 1968 study as two-year branch institutions, have since been elevated to four-year status. The 1968 data have been adjusted accordingly in the four-year institutional totals and two-year institutional totals for the purposes of this report.

^b Data for Virginia Commonwealth University reflect only the Academic Center for both 1968 and 1970.

^c Germanna Community College, Southside Community College and Virginia Highlands Community College were not in operation in 1968.

^d Eastern Shore College and Patrick Henry College, reflected in this report as two-year branch colleges, became part of the Virginia Community College System July 1, 1971.